**AMENDMENTS TO THE CLAIMS** 

1. (PREVIOUSLY PRESENTED) A method in a network, the method including:

determining by a signaling gateway a congestion level for each of a plurality of Voice over

IP-based application server process groups, each of the application server process groups distinct

from the signaling gateway and sharing a same prescribed point code with the signaling gateway,

each application server process group having at least one assigned application server process sharing

the prescribed point code and configured for providing services for a corresponding message

signaling unit attribute, each application server process assigned to one of the application server

process groups;

receiving by the signaling gateway an SS7 message having an originating point code

specifying an originating node and a destination point code specifying the prescribed point code, the

SS7 message carrying a message signaling unit having specified attributes;

identifying by the signaling gateway one of the application server process groups as a

candidate group for processing the message signaling unit based on a determined match between the

corresponding message signaling unit attribute and at least a corresponding portion of the specified

attributes; and

selectively sending by the signaling gateway to the originating node a congestion notification

message based on determining that an identified priority of the message signaling unit does not

exceed the corresponding congestion level for the candidate group.

2. (ORIGINAL) The method of claim 1, wherein the determining step includes determining

the congestion levels for each application server process group based on a corresponding traffic

configuration.

3. (PREVIOUSLY PRESENTED) The method of claim 2, wherein the traffic configuration

for a corresponding application server process group includes one of an override configuration, a

loadshare configuration, a broadcast configuration, or a loadshare bindings configuration.

4. (PREVIOUSLY PRESENTED) The method of claim 3, wherein the determining includes:

selectively setting the congestion level for a corresponding application server process group

based on a highest determined congestion of an associated one of the application server processes,

based on the corresponding application server process group having the override configuration;

selectively setting the congestion level for a corresponding application server process group

based on a lowest determined congestion of an associated one of the application server processes,

based on the corresponding application server process group having the loadshare configuration;

selectively setting the congestion level for a corresponding application server process group

based on a lowest determined congestion of an associated one of the application server processes,

based on the corresponding application server process group having the broadcast configuration; and

selectively setting the congestion level for a corresponding application server process group

based on a highest determined congestion of an associated one of the application server processes,

based on the corresponding application server process group having the loadshare

bindings configuration;

each application server process assigned to only one of the application server process groups.

5. (CURRENTLY AMENDED) The method of claim 1, wherein a first and second of the

application server process groups are configured for providing Signalling Signaling Connection

Control Part (SCCP) message service and ISDN User Part message service as the respective message

signaling unit attributes.

6. (ORIGINAL) The method of claim 1, further comprising:

receiving a second SS7 message having a second originating point code specifying a second

originating node and the destination point code specifying the prescribed point code, and carrying

a second message signaling unit having second specified attributes;

identifying another one of the application server process groups as a second candidate group

based on determined match between the corresponding message signaling unit attribute and at least

a corresponding portion of the second specified attributes, distinct from the portion of the specified

attributes of the message signaling unit;

sending the second message signaling unit to an identified active one of the application server

processes of the another one of the application server process groups, based on a determined priority

of the second message signaling unit exceeding the congestion level of the second candidate group

and independent of the congestion level of the candidate group.

7. (ORIGINAL) The method of claim 1, further comprising selectively outputting to an

identified one of the assigned application server processes of the candidate group the message

signaling unit based on determining that the identified priority of the message signaling unit exceeds

the corresponding congestion level for the candidate group.

8. (ORIGINAL) The method of claim 7, wherein the selectively outputting includes

identifying the identified one assigned application server process based on receiving an application

server process active message from the identified one assigned application server process.

9. (PREVIOUSLY PRESENTED) A signaling gateway in a network, the signaling gateway

comprising:

means for determining a congestion level for each of a plurality of Voice over IP-based

application server process groups, each application server process group distinct from the signaling

gateway and sharing a same prescribed point code with the signaling gateway, each application

server process group having at least one assigned application server process sharing the prescribed

point code and configured for providing services for a corresponding message signaling unit

attribute, each application server process assigned to one of the application server process groups;

means for receiving an SS7 message having an originating point code specifying an

originating node and a destination point code specifying the prescribed point code, the SS7 message

carrying a message signaling unit having specified attributes;

means for identifying one of the application server process groups as a candidate group for

processing the message signaling unit based on a determined match between the corresponding

message signaling unit attribute and at least a corresponding portion of the specified attributes; and

the determining means configured for selectively sending to the originating node a congestion

notification message based on determining that an identified priority of the message signaling unit

does not exceed the corresponding congestion level for the candidate group.

10. (ORIGINAL) The gateway of claim 9, wherein the determining means is configured for

determining the congestion levels for each application server process group based on a corresponding

traffic configuration.

(PREVIOUSLY PRESENTED) The gateway of claim 10, wherein the traffic 11.

configuration for a corresponding application server process group includes one of an override

configuration, a loadshare configuration, a broadcast configuration, or a loadshare bindings

configuration.

12. (PREVIOUSLY PRESENTED) The gateway of claim 11, wherein the determining

means is configured for:

selectively setting the congestion level for a corresponding application server process group

based on a highest determined congestion of an associated one of the application server processes,

based on the corresponding application server process group having the override configuration;

selectively setting the congestion level for a corresponding application server process group

based on a lowest determined congestion of an associated one of the application server processes,

based on the corresponding application server process group having the loadshare configuration;

selectively setting the congestion level for a corresponding application server process group

based on a lowest determined congestion of an associated one of the application server processes,

based on the corresponding application server process group having the broadcast configuration; and

selectively setting the congestion level for a corresponding application server process group

based on a highest determined congestion of an associated one of the application server processes,

based on the corresponding application server process group having the loadshare

bindings configuration;

each application server process assigned to only one of the application server process groups.

13. (CURRENTLY AMENDED) The gateway of claim 9, wherein a first and second of the

application server process groups are configured for providing Signalling Connection

Control Part (SCCP) message service and ISDN User Part message service as the respective message

signaling unit attributes.

14. (ORIGINAL) The gateway of claim 9, wherein:

the receiving means is configured for receiving a second SS7 message having a second

originating point code specifying a second originating node and the destination point code specifying

the prescribed point code, and carrying a second message signaling unit having second specified

attributes;

the identifying means configured for identifying another one of the application server process

groups as a second candidate group based on determined match between the corresponding message

signaling unit attribute and at least a corresponding portion of the second specified attributes, distinct

from the portion of the specified attributes of the message signaling unit;

the determining means configured for sending the second message signaling unit to an

identified active one of the application server processes of the another one of the application server

process groups, based on a determined priority of the second message signaling unit exceeding the

congestion level of the second candidate group and independent of the congestion level of the

candidate group.

15. (ORIGINAL) The gateway of claim 9, wherein the determining means is configured for

outputting to an identified one of the assigned application server processes of the candidate group

the message signaling unit based on determining that the identified priority of the message signaling

unit exceeds the corresponding congestion level for the candidate group.

16-24 (CANCELED).

25. (PREVIOUSLY PRESENTED) A signaling gateway in a network, the signaling

gateway comprising:

a congestion level detection circuit configured for determining a congestion level for each

of a plurality of Voice over IP-based application server process groups, each application server

process group distinct from the signaling gateway and sharing a same prescribed point code with the

signaling gateway, each application server process group having at least one assigned application

server process sharing the prescribed point code and configured for providing services for a

corresponding message signaling unit attribute, each application server process assigned to one of

the application server process groups;

a switched circuit network interface configured for receiving an SS7 message having an

originating point code specifying an originating node and a destination point code specifying the

prescribed point code, the SS7 message carrying a message signaling unit having specified attributes;

and

a routing circuit configured for identifying one of the application server process groups as

a candidate group for processing the message signaling unit based on a determined match between

the corresponding message signaling unit attribute and at least a corresponding portion of the

specified attributes;

the congestion level detection circuit configured for selectively sending to the originating

node a congestion notification message based on determining that an identified priority of the

message signaling unit does not exceed the corresponding congestion level for the candidate group.

26. (PREVIOUSLY PRESENTED) The gateway of claim 25, wherein the congestion level

detection circuit is configured for determining the congestion levels for each application server

process group based on a corresponding traffic configuration.

27. (PREVIOUSLY PRESENTED) The gateway of claim 26, wherein the traffic

configuration for a corresponding application server process group includes one of an override

configuration, a loadshare configuration, a broadcast configuration, or a loadshare bindings

configuration.

28. (PREVIOUSLY PRESENTED) The gateway of claim 27, wherein the congestion level

detection circuit is configured for:

selectively setting the congestion level for a corresponding application server process group

based on a highest determined congestion of an associated one of the application server processes,

based on the corresponding application server process group having the override configuration;

selectively setting the congestion level for a corresponding application server process group

based on a lowest determined congestion of an associated one of the application server processes,

based on the corresponding application server process group having the loadshare configuration;

selectively setting the congestion level for a corresponding application server process group

based on a lowest determined congestion of an associated one of the application server processes,

based on the corresponding application server process group having the broadcast configuration; and

selectively setting the congestion level for a corresponding application server process group

based on a highest determined congestion of an associated one of the application server processes,

based on the corresponding application server process group having the loadshare bindings

configuration;

each application server process assigned to only one of the application server process groups.

29. (CURRENTLY AMENDED) The gateway of claim 25, wherein a first and second of

the application server process groups are configured for providing Signalling Connection

Control Part (SCCP) message service and ISDN User Part message service as the respective message

signaling unit attributes.

30. (PREVIOUSLY PRESENTED) The gateway of claim 25, wherein:

the switched circuit network interface is configured for receiving a second SS7 message

having a second originating point code specifying a second originating node and the destination point

code specifying the prescribed point code, and carrying a second message signaling unit having

second specified attributes;

the routing circuit configured for identifying another one of the application server process

groups as a second candidate group based on determined match between the corresponding message

signaling unit attribute and at least a corresponding portion of the second specified attributes, distinct

from the portion of the specified attributes of the message signaling unit;

the congestion level detection circuit configured for causing the second message signaling

unit to be sent to an identified active one of the application server processes of the another one of

the application server process groups, based on a determined priority of the second message

signaling unit exceeding the congestion level of the second candidate group and independent of the

congestion level of the candidate group.

31. (PREVIOUSLY PRESENTED) The gateway of claim 30, further comprising an Internet

Protocol (IP) based output circuit configured for outputting the second message signaling unit to the

identified active one of the application server processes.

32. (PREVIOUSLY PRESENTED) The gateway of claim 25, wherein the congestion level

detection circuit is configured for causing the message signaling unit to be output to an identified

one of the assigned application server processes of the candidate group based on determining that

the identified priority of the message signaling unit exceeds the corresponding congestion level for

the candidate group.

33. (PREVIOUSLY PRESENTED) The gateway of claim 32, wherein the congestion level

detection circuit is configured for identifying the identified one assigned application server process

based on receiving an application server process active message from the identified one assigned

application server process.